

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/038294 A1

(51) International Patent Classification⁷: **F16G 1/28**,
B29D 29/08, B29C 67/24, C08L 15/00, 27/18

(21) International Application Number:
PCT/EP2004/052559

(22) International Filing Date: 15 October 2004 (15.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
TO2003A 000821 17 October 2003 (17.10.2003) IT

(71) Applicant (for all designated States except US): **DAYCO
EUROPE S.R.L. CON UNICO SOCIO** [IT/IT]; Via Papa
Leone XIII, 45, I-66013 CHIETI SCALO (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DI MECO, Marco**

[IT/IT]; Via Strada Vecchia Fontanelle, 83, I-65129
PESCARA (IT). **DI GIACOMO, Tommaso** [IT/IT]; Via
Gamberale, 25, I-66010 S. MARTINO SULLA MAR-
RUCINA (IT).

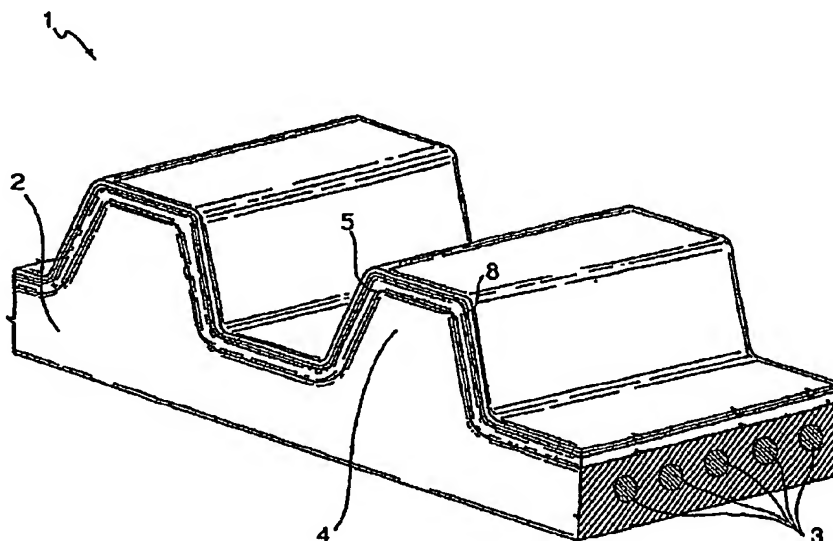
(74) Agents: **JORIO, Paolo** et al.; STUDIO TORTA S.r.l., Via
Viotti, 9, I-10121 TORINO (IT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: A TOOTHED BELT



(57) Abstract: Described herein is a toothed belt (1) comprising a body (2) made of elastomeric material, in which there is embedded a plurality of longitudinal filiform resistant inserts or cords (3), and a toothing (4) coated with a coating fabric (5); on top of the coating fabric (5) there is made to adhere a resistant layer (8), which increases resistance to wear of the toothed belt and comprises a fluorine-based plastomer with addition of elastomeric material, in which the plastomer is present in a larger amount than is the elastomeric material and in which the majority of the particles constituting the fluorine-based plastomer have a size less than 10 µm. The resistant layer (8) is applied directly on the fabric (5) via spreading. The fluorinated plastomer preferably has a base of polytetrafluoroethylene compound.

WO 2005/038294 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(48) Date of publication of this corrected version:

6 October 2005

(15) Information about Correction:

see PCT Gazette No. 40/2005 of 6 October 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.